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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
09/663,878	09/15/00	IINO		А	S004-4102	
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ANADAS O LITT	e en	MM91/1017		BHDD. M		
ADAMS & WILKS ATTORNEYS AND COUNSELORS AT LAW			[ART UNIT	PAPER NUMBER	
31ST FLOOR 50 BROADWAY NEW YORK NY	10004			2834 Date Mailed:		
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

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	Office Action Summary	Examiner	M.	Bu de	Group Art Unit	
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from the property of the prope	sions of time may be available under the provisions of 37 CFR 1 he mailing date of this communication. period for reply specified above is less than thirty (30) days, a re period for reply is specified above, such period shall, by default e to reply within the set or extended period for reply will, by stat eply received by the Office later than three months after the mail adjustment. See 37 CFR 1.704(b).	eply within the stat , expire SIX (6) MC	utory mi NTHS fi	nimum of thirty (om the mailing of to become ABA	30) days will be consi date of this communic NDONED (35 U.S.C. §	dered timely. cation. § 133).
tatus						
☐ Res	sponsive to communication(s) filed on					·
☐ This	s action is FINAL.					
☐ Sinc	ce this application is in condition for allowance except cordance with the practice under <i>Ex parte Quayle</i> , 1935	for formal matt 5 C.D. 1 1; 453 (ers, pr O.G. 21	osecution as 3.	to the merits is	closed in
)ispositi	ion of Claims $/-/2$					
📐 Clai	im(s)	is/are	. is/are pending in the application.			
Of t	the above claim(s)	is/are	_ is/are withdrawn from consideration.			
_XClai	im(s)12			is/are	allowed.	
d Cla	im(s) /- lo			is/are	rejected.	
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Amplicat	tion Paners			requii	ement	
☐ The	e proposed drawing correction, filed on	is □ ap	proved	□ disappro	ved.	
□ The	e drawing(s) filed on is/are object	cted to by the E	xamine	r		
□ The	e specification is objected to by the Examiner.					
☐ The	e oath or declaration is objected to by the Examiner.					
Priority	under 35 U.S.C. § 119 (a)-(d)					
	knowledgement is made of a claim for foreign priority	under 35 U.S.C	. § 119	(a)-(d).		
	\li □ Some* □ None of the:					
	Certified copies of the priority documents have been	received.				
	Certified copies of the priority documents have been	received in App	licatior	No		
	Copies of the certified copies of the priority documen					
_	in this national stage application from the Internation	al Bureau (PCT	Rule 1	7.2(a))		
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Attachn	ment(s)					
	formation Disclosure Statement(s), PTO-1449, Paper N	lo(s)	. [Interview Su	mmary, PTO-413	
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Claims 4-7 and 13-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

These claims are vague and indefinite. Claims 4-7 are indefinite in that they include structurally device configurations as alternatives. One cannot determine what is actually being claimed is the rotor rotated and if so, how? Or, is a standing wave provided, and if so by what means? In claims 13-20, there is no proper antecedent basis for "the linear motion--- or swinging mechanism". The claims are also confusing in their alternative nature. Claims 21-28 are vague and indefinite in that it is unclear what constitutes 'an optical intensity". Further, there is no optical source from which an intensity could be varied. Thus, one cannot determine the metes and bounds of these claims.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Honda or Miyata.

Honda and Miyata teach an ultrasonic motor the output of which is converted by a cam mechanism. The resultant linear movement can be two way rather than in a single direction.

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This difference is considered to be dictated by the use selected for the motor and would have been within the skill expected of the routineer to provide. Likewise, addition of appropriate necessary loading (spring bias) would have been obvious to one of ordinary skill in the art.

Claim Ais rejected under 35 U.S.C. 103(a) as being unpatentable over Honda or Miyata in view of Zumeris or Sager.

Honda and Miyata teach the ultrasonic motor as noted above. They do not use a rack and pinion motion conversion. However, use of rack and pinion as an output for ultrasonic elements is well known as demonstrated by Zumeris or Sager. Selecting from among known motion conversion as gearing outputs would be within the skill expected of the routineer and therefore would have been obvious to one of ordinary skill in the art.

Claim 3 rejected under 35 U.S.C. 103(a) as being unpatentable over Honda or Miyata in view of Adachi or Shibuya.

Monda and Miyata have been discussed above. Adachi and Shibuya teach a swing output is well known as an output for ultrasonic motors. Selection from among known motion conversion mechanisms would have been obvious to one of ordinary skill in the art.

Claim 11 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 12 is allowed.

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Due to the confusing nature of claims 4-7 and 13-28 prior art cannot be applied at this

Further cited are Tsukada Naka and Kosugi.

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